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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

05/12/2010

FOX ROTHSCHILD LLP PRINCETON PIKE CORPORATE CENTER 997 LENOX DRIVE BLDG. #3 LAWRENCEVILLE. NJ 08648

EXAMINER				
TISCHLER, FRANCES				
ART UNIT	PAPER NUMBER			

1796

DATE MAILED: 05/12/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,883	06/08/2006	Thomas Nosker	70439.00079/P26,788-A	7021
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TITLE OF INVENTION: USE OF RECYCLED PLASTICS FOR STRUCTURAL BUILDING FORMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	08/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further adicated unless correcte anintenance fee notifical	correspondence including below or directed oth tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspoi rate "FEI	ndence address as E ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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BLDG. #3 LAWRENCEVI	LLE NL08648								(Depositor's name)
L'ATTICLE VI	LLL, 11, 000-10								(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFII	RMATION NO.
10/563,883	06/08/2006	•	Thomas Nosker		•	70439	9.00079/P26,788-A	,	7021
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	SPEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$755	\$300	_	\$0		\$1055	(08/12/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
TISCHLER,	FRANCES	1796	523-204000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	TO BE PRINTED ON The fied below, no assignee letion of this form is NO	data will appear on th	he pa g an a	tent. If an assigne ssignment.			ocument l	nas been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity	Government
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OTE: The Issue Fee and	d Publication Fee (if requ	nired) will not be accepted tes Patent and Trademark	d from anyone other th						
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10/563,883	06/08/2006	Thomas Nosker	70439.00079/P26,788-A LISA	7021
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FOX ROTHSCH	ILD LLP	TISCHLER, FRANCES		
	E CORPORATE CEN	ΓER	ART UNIT	PAPER NUMBER
997 LENOX DRIV BLDG. #3	/E		1796	
LAWRENCEVILI	LE, NJ 08648		DATE MAILED: 05/12/2010	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 363 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 363 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/563,883 Examiner	NOSKER ET AL. Art Unit	
•			
	FRANCES TISCHLER	1796	
The MAILING DATE of this communication apportant All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due course	
1. \boxtimes This communication is responsive to $2/17/10$.			
2. ☑ The allowed claim(s) is/are <u>1-3,6-8 and 19-24</u> .			
 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).	
2. ☐ Certified copies of the priority documents have		n No.	
3. \(\sum \) Copies of the certified copies of the priority do	, ,		om the
International Bureau (PCT Rule 17.2(a)).		and the second configuration in	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirem	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	ı (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	·		
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			ne
Attachment(s)	5 Notice of let	iannal Datant Application	
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	_	formal Patent Application	
 Information Disclosure Statements (PTO/SB/08), 	Paper No./	ummary (PTO-413), Mail Date Amendment/Comment	
Paper No./Mail Date			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance	e
	9. Other		
/Ling-Siu Choi/ Primary Examiner, Art Unit 1796	/Frances Tischl Examiner, Art U		

Application/Control Number: 10/563,883 Page 2

Art Unit: 1796

DETAILED ACTION

This office action is in response to the amendment filed 2/17/10. Claims 1-3, 6-8 and 19-24 have been amended. Claims 4, 5 and 9-18 have been cancelled. Claims 1-3, 6-8 and 19-24 are now pending.

REASONS FOR ALLOWANCE

Claims 1-3, 6-8 and 19-24 are allowed.

The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references of Nosker et al (US 5,789,477) in view of Marinelli (US 6,247,651).

Applicant claims:

A modular thermoplastic plastic structural member

comprising[[:]] a web section disposed along a horizontal axis[[:]] and one or more flange sections disposed along a horizontal axis parallel thereto and integrally molded to engage the top or bottom surface of said web section, wherein;

the width of said flange sections measured perpendicular to said horizontal axis of said flange section [[10]] is two to ten times the width of said web section measured perpendicular to said horizontal axis of said web section;

the vertical dimension (thickness) of said flange sections are about one-tenth to about one-half the size of the vertical dimension of said web section without any flange sections;

and further wherein said structural member is formed from a co-comimous immiscible polymer blend consisting essentially of:

a high density polyolefin and

a thermoplastic polymer-coated fiber material[[,]] or a thermoplastic polymer having fiber material embedded therein.

Nosker discloses a structural composite formed from a mixture of high density polyolefin and a thermoplastic-coated fiber material useful in high stress applications such as railroad ties, dimensional lumber, poles, guard rail posts, pier, boardwalk, etc. Nosker further discloses a railroad tie produced with dimensions of 7"X9"X10', which is the typical dimensions of a tie, but is silent on the specifics of the tie, namely the dimension and spatial orientation of flange and web sections.

Marinelli discloses a composite railway tie. The composite is made of HDPE, rubber tires and fiberglass. The tie is made in the form of an I-beam with flange sections with an interconnecting web section.

No prior art teaches or fairly suggests the claimed modular thermoplastic structural member formed from a co-continuous polymer blend consisting essentially of a high density polyolefin and a thermoplastic polymer-coated fiber material wherein the structural member comprises a flange sections integrally molded to engage the top and bottom surface of a web section, wherein the width of the flange sections measured perpendicular to the horizontal axis of said flange sections is two to ten times the width of the web section measured perpendicular to the horizontal axis of said web section and wherein the thickness of the flange sections are about one-tenth to about one-half the size of the web section without any flange sections.

Marinelli's composition, which includes rubber, has a lower modulus of elasticity compared to the claimed invention and cannot handle high loads without deforming. Nosker's structural member lacks the specific dimensions and spatial arrangement of web and flange sections that give said structural member the required design that allows for high loads. Applicant further demonstrated a video of a combat tank successfully crossing a bridge made with the composite and structure claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANCES TISCHLER whose telephone number is (571)270-5458. The examiner can normally be reached on Monday-Friday 7:30AM - 5:00 PM; off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ling-Siu Choi/ Primary Examiner, Art Unit 1796

Frances Tischler Examiner Art Unit 1796

/FT/